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Application No. (if known): 09/170,042

Attorney Docket No.: PF226D1

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Fee Transmittal (1 page);
Amendment and Reply Under 37 C.F.R. §1.116 (10 pages), and
Exhibit A (4 pages, copy of title page, copyright statement page, page
2 10.7, and page A 2.5 from "Current Protocols in Molecular Biology".

FAX TRANSMISSION**FAX RECEIVED**

JUL 02 2003

GROUP 1600

DATE: July 1, 2003

PTO IDENTIFIER: Application Number 09/170,042
Patent Number

Inventor: Hastings et al.

MESSAGE TO: Examiner R.C. Hayes

FAX NUMBER: (703) 308-4242

FROM: HUMAN GENOME SCIENCES, INC.

Doyle A. Siever

PHONE: (240) 314-4400

Attorney Dkt. #: PF226D1

PAGES (Including Cover Sheet): 17

CONTENTS:

1. Fee Transmittal Sheet (1 page)
2. Amendment and Reply Under 37 C.F.R. 1.116 (10 pages)
3. Exhibit A (4 pages; copy of title page, copyright statement page, page 2.10.7, and page A.2.5 from "Current Protocols in Molecular Biology".)
4. Certificate of Transmission Under 1.8 (1 page)

If your receipt of this transmission is in error, please notify this firm immediately by collect call to (240) 314-4400 and send the original transmission to us by return mail at the address below.

HUMAN GENOME SCIENCES, INC.
9410 Key West Avenue, Rockville, Maryland 20850
Telephone: (301) 610-5790 Facsimile: (301) 309-8439

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Approved for use through 04/30/2003 OMB 0851-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE**FEE TRANSMITTAL
for FY 2003**

Effective 01/01/2003, Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 0.00**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit
Account
Number

08-3425

Deposit
Account
Name

Human Genome Sciences, Inc.

The Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims: 31 -41** = A = Fee Paid

Independent Claims: 4 -4** = X = Fee Paid

Multiple Dependent

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	84	2201	42	Independent claims in excess of 3	
1203	280	2203	140	Multiple dependent claims, if not paid	
1204	84	2204	42	-- Reissue independent claims over original patent	
1205	18	2205	9	-- Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$) 0.00

**or number previously paid, if greater. For Reissues, see above

Complete if Known

Application Number 09/170,042

Filing Date October 13, 1998

First Named Inventor Gregg A. Hastings

Examiner Name R.C. Hayes

Art Unit 1647

Attorney Docket No PF226D1

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication or SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication or SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Sheet	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.128(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

Name (Print/Type) Doyle A. Siever

Registration No
(Attorney/Agent)

47,088

Complete (if applicable)Telephone (240) 314-4400
Ext 3595

Date July 1, 2003